

## **REMARKS**

The present application relates to inbred maize line PH7JD. Claims 1 and 40-42 are pending in the present application. No new matter has been added by way of amendment. Applicants respectfully request consideration of the claims in view of the following remarks.

### **Request for Information under 37 C.F.R. § 1.105**

The Examiner has made a Request for Information under 37 C.F.R. § 1.105. The Examiner states the requested information is "required to make a meaningful and complete search of the prior art". See Office Action, p. 2.

Applicants provide answers to each of the Examiner's interrogatories discussed *infra*.

The Examiner begins by asking firstly, what were the original parental maize lines used to produce maize inbred line PH7JD? Please supply information pertaining to the lineage of the original parental lines back to any publicly available varieties. PHP02 and PH06N. Information pertaining to the lineage of the original parental lines is available within the PVP Application No. 200200011, attached as Appendix 1.

Secondly, what method and steps were used to produce maize inbred line PH7JD? Pedigree selection method produced by selfing for 6 generations.

Third, have any of said parental maize lines or progeny therefrom been disclosed or made publicly available?

a. The parental maize line PHP02 was previously disclosed or made publicly available in PVP Certificate No. 8800212 and U.S. Patent No. 5,082,992. The parental maize line PH06N was previously disclosed or made publicly available in PVP Certificate No. 9700213 and U.S. Patent No. 5,675,066.

b. No other progeny of the parental cross PHP02/PH06N was previously disclosed or made publicly available by Applicants prior to the earliest priority date.

Fourth, were any other maize lines produced by said method using said original parental maize lines, and if so, have said produced maize lines been publicly available or sold? If so, under what designation/denomination and under what conditions were said other maize lines disclosed or made publicly available? No maize line using the same F1 cross has been produced by said method using said original parental maize lines at or before the time of filing of the instant application.

In light of the above remarks, Applicants respectfully request reconsideration and compliance with the interrogatories under the Request for Information under 37 C.F.R. § 1.105.

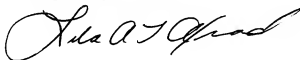
**Conclusion**

In conclusion, Applicants submit in light of the above amendments and remarks, the claims as amended are in a condition for allowance, and reconsideration is respectfully requested. If it is felt that it would aid in prosecution, the Examiner is invited to contact the undersigned at the number indicated to discuss any outstanding issues.

No fees or extensions of time are believed to be due in connection with this amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Reconsideration and allowance is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lila A. T. Akrad". The signature is fluid and cursive, with the first name "Lila" being the most prominent part.

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**CUSTOMER NO: 27142**

- LATA/ bjh-

Attorneys of Record

No.

200200011



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Pioneer Hi-Bred International, Inc.**

*Whereas*, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (94 STAT. 1151, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'PH7JD'

*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this first day of July, in the year two thousand and four.*

*Attest:*

*Blmzel*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service



*Lawman*

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

**APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE**  
(Instructions and Information collection burden statement on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2428).

1. NAME OF OWNER <b>Pioneer Hi-Bred International, Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER <b>PH7 JD</b>		3. VARIETY NAME <b>PH7 JD</b>	
4. ADDRESS (Street and No. or P.O. No., City, State and Zip Code, and Country) <b>7301 NW 62<sup>nd</sup> Avenue P.O. Box 85 Johnston, IA 50131-0085</b>		5. TELEPHONE (include area code) <b>515/270-4051</b>		FOR OFFICIAL USE ONLY PVPO NUMBER <b>200200011</b>	
		6. FAX (include area code) <b>515/253-2125</b>			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) <b>Corporation</b>		8. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>IOWA</b>		9. DATE OF INCORPORATION <b>March 5, 1999</b>	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION (FIRST PERSON LISTED WILL RECEIVE ALL PAPERS) <b>Steven R. Anderson Research and Product Development P.O. Box 85 Johnston, IA 50131-0085</b>				FILING DATE <b>Oct, 15, 2001</b>	
				FILING AND EXAMINATION FEES: \$ <b>2705.00</b> DATE <b>10/15/01</b> CERTIFICATION FEE: \$ <b>432.00</b> DATE <b>6/18/04</b>	
11. TELEPHONE (include area code) <b>515/270-4051</b>		12. FAX (include area code) <b>515/253-2125</b>		13. E-MAIL <b>Steven.Anderson@Pioneer.com</b>	
14. CROP KIND NAME (Common name) <b>CORN</b>		15. GENUS AND SPECIES NAME OF CROP <b>Zea Mays</b>		16. FAMILY NAME (Botanical) <b>Gramineae</b>	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety		b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness			
c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety		d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)			
e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership		f. <input checked="" type="checkbox"/> Voucher Sample (2000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)			
g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 5(b) of the Plant Variety Protection Act. <input type="checkbox"/> YES (if "yes", answer Items 20 and 21 below) <input checked="" type="checkbox"/> NO (if "no", go to Item 22)			
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owner(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is/are the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is/are informed that false representation herein can jeopardize protection and results to penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER 			
NAME (Please print or type) <b>Steven R. Anderson</b>		NAME (Please print or type) <b>Steven R. Anderson</b>			
CAPACITY OR TITLE <b>Research Scientist</b>		CAPACITY OR TITLE <b>Research Scientist</b>			
DATE <b>10/10/01</b>		DATE <b>10/10/01</b>			

## INSTRUCTIONS

200200011

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in a approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$30 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. **Retain one copy for your files.** All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

## Plant Variety Protection Office

Telephone: (301)504-5518

FAX: (301)504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

## ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
(2) the details of subsequent stages of selection and multiplication;  
(3) evidence of uniformity and stability; and  
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:  
(1) Identify these varieties and state all differences objectively;  
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and  
(3) submit, if helpful, seed and plant specimens of photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant disease resistance, etc.
- 18e. Section 52(5) of the Act required applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, applicant may change the choice. (See Regulations and Rules of Practice, Section 7.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
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22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 
23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
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NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instruction, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7430, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Pedigree: PHP02/PH06N)XTA041K1X

Pioneer Line PH7JD, *Zea mays L.*, a dent corn inbred, was developed by Pioneer Hi-Bred International, Inc. from the single cross hybrid PHP02 (Certificate No. 8800212) X PH06N (PVP Certificate No. 9700213) using the pedigree method of plant breeding. Varieties PHP02 and PH06N are proprietary inbred lines of Pioneer Hi-Bred International, Inc. Selfing was practiced from the above hybrid for 6 generations using pedigree selection. During line development, crosses were made to inbred testers for the purpose of estimating the line's combining ability. Yield trials were grown at Ithaca, Michigan as well as other Pioneer research locations. After initial testing, additional hybrid combinations have been evaluated and subsequent generations of the line have been grown and hand-pollinated with observations again made for uniformity.

Variety PH7JD has shown uniformity and stability for all traits as described in Exhibit C - "Objective Description of Variety". It has been self-pollinated and ear-rowed 4 generations with careful attention paid to selection criteria and uniformity of plant type to assure genetic homozygosity and phenotypic stability. The line has been increased both by hand and in isolated fields with continued observations for uniformity and stability, and for 3 generations during the final stages of inbred development and seed multiplication. Very high standards for genetic purity have been established morphologically using field observations and electrophoretically using sound lab molecular marker methodology.

No variant traits have been observed or are expected in PH7JD.

The criteria used in the selection of PH7JD were yield, both per se and in hybrid combinations; late season plant health, grain quality, stalk lodging resistance, and kernel size, especially important in production. Other selection criteria include: ability to germinate in adverse conditions; number of tillers, especially important in production because having numerous tillers increases hybrid production costs spent on detasseling; disease and insect resistance; pollen yield and tassel size.

Season/Year Pedigree Grown	Inbreeding Level of Pedigree Grown
Summer 1994 PHP02, PH06N	F0
Winter 1994 PHP02/PH06N	F1
Summer 1995 PHP02/PH06N)X	F2
Summer 1996 PHP02/PH06N)XTA0	F3
Summer 1997 PHP02/PH06N)XTA04	F4
Winter 1997 PHP02/PH06N)XTA041	F5
Summer 1998 PHP02/PH06N)XTA041K1	F6
SEED PHP02/PH06N)XTA041K1X	F7

\*PH7JD was selfed and ear-rowed from F3 through F6 generation.

#Uniformity and stability were established from F5 through F7 generation and beyond when seed supplies were increased.

**Exhibit B. Novelty Statement**

Variety PH7JD mostly resembles Pioneer Hi-Bred International, Inc. proprietary inbred line PHP02 (PVP Certificate No. 8800212). The data in Table 1A and 1B are from t-tests collected from two environments in Johnston, IA. and one environment in Ankeny, IA.

Variety PH7JD has a lower percentage of sun scalding (11.6% vs 73.4%) compared to PHP02 (Table 1A, 1B, Figure 1).

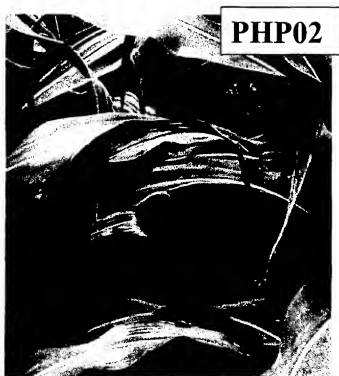
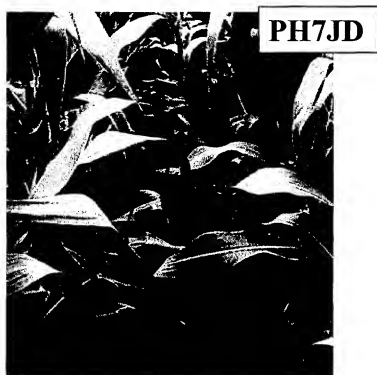
Variety PH7JD has taller ear height (79.7 cm vs 67.5 cm) compared to PHP02 (Table 1C, 1D).

Full isozymes were run on the same gel for 5 individuals of each variety. Variety PH7JD differs for the marker isozyme at locus *Amp1* (aminopeptidase1). Standardized isozyme analysis revealed that PH7JD is homozygous for allele *Amp1*-5 while PHP02 is homozygous for allele *Amp1*-4. These isozymes were stable and consistent for each of the 5 individuals tested for each genotype.

Variety PH7JD differs for the marker isozyme at locus *Est4* (esterase4). Standardized isozyme analysis revealed that PH7JD is homozygous for allele *Est4*-3 while PHP02 is homozygous for allele *Est4*-5. These isozymes were stable and consistent for each of the 5 individuals tested for each genotype.

JAS 8/25/03

Figure 1. Sun scalding of leaves showing differences between PH7JD and PHP02.



## Exhibit B Novelty Statement Tables

Table 1A. Sun scalding data for 2 locations in Johnston, IA in 2001. Data is broken out by environment. Environments had different planting dates. The AD environment was irrigated and the JH environment was not irrigated in 2001.

Variety	Location	# of Sun Scalded Plants	Total Stand	% Plants with Sun Scald
PHP02	JH	51	52	98.08%
PHP02	AD	20	41	48.78%
PH7JD	JH	7	52	13.46%
PH7JD	AD	4	41	9.76%

Table 1B. Sun scalding data summarized across 2 locations in Johnston, IA in 2001.

Variety	Mean % Plants with Sun Scald
PHP02	73.4%
PH7JD	11.6%



## DEFINITIONS

200200011

In the description and examples, a number of terms are used herein. In order to provide a clear and consistent understanding of the specification and claims, including the scope to be given such terms, the following definitions are provided:

- ANT ROT** = **ANTHRACNOSE STALK ROT** (*Colletotrichum graminicola*).  
A 1 to 9 visual rating indicating the resistance to Anthracnose Stalk Rot. A higher score indicates a higher resistance.
- BAR PLT** = **BARREN PLANTS**.  
The percent of plants per plot that were not barren (lack ears).
- BRT STK** = **BRITTLE STALKS**.  
This is a measure of the stalk breakage near the time of pollination, and is an indication of whether a hybrid or inbred would snap or break near the time of flowering under severe winds. Data are presented as percentage of plants that did not snap.
- BU ACR** = **YIELD (BUSHELS/ACRE)**.  
Yield of the grain at harvest in bushels per acre adjusted to 15.5% moisture.
- CLD TST** = **COLD TEST**.  
The percent of plants that germinate under cold test conditions.
- CLN** = **CORN LETHAL NECROSIS**.  
Synergistic interaction of maize chlorotic mottle virus (MCMV) in combination with either maize dwarf mosaic virus (MDMV-A or MDMV-B) or wheat streak mosaic virus (WSMV). A 1 to 9 visual rating indicating the resistance to Corn Lethal Necrosis. A higher score indicates a higher resistance.
- COM RST** = **COMMON RUST** (*Puccinia sorghi*).  
A 1 to 9 visual rating indicating the resistance to Common Rust. A higher score indicates a higher resistance.
- DIP ERS** = **DIPLODIA EAR MOLD SCORES** (*Diplodia maydis* and *Diplodia macrospora*).  
A 1 to 9 visual rating indicating the resistance to Diplodia Ear Mold. A higher score indicates a higher resistance.
- DRP EAR** = **DROPPED EARS**.  
A measure of the number of dropped ears per plot and represents the percentage of plants that did not drop ears prior to harvest.
- EAR HT** = **EAR HEIGHT**.  
The ear height is a measure from the ground to the highest placed developed ear node attachment and is measured in cm.
- EAR MLD** = **GENERAL EAR MOLD**.  
Visual rating (1-9 score) where a "1" is very susceptible and a "9" is very resistant. This is based on overall rating for ear mold of mature ears without determining the specific mold organism, and may not be predictive for a specific ear mold.
- EAR SZ** = **EAR SIZE**.  
A 1 to 9 visual rating of ear size. The higher the rating the larger the ear size.
- ECB 1LF** = **EUROPEAN CORN BORER FIRST GENERATION LEAF FEEDING** (*Ostrinia nubilalis*).  
A 1 to 9 visual rating indicating the resistance to preflowering leaf feeding by first generation European Corn Borer. A higher score indicates a higher resistance.
- ECB 2IT** = **EUROPEAN CORN BORER SECOND GENERATION INCHES OF TUNNELING** (*Ostrinia nubilalis*).  
Average inches of tunneling per plant in the stalk.
- ECB 2SC** = **EUROPEAN CORN BORER SECOND GENERATION** (*Ostrinia nubilalis*).

- A 1 to 9 visual rating indicating post flowering degree of stalk breakage and other evidence of feeding by European Corn Borer, Second Generation. A higher score indicates a higher resistance.
- ECB DPE** = **EUROPEAN CORN BORER DROPPED EARS** (*Ostrinia nubilalis*).  
Dropped ears due to European Corn Borer. Percentage of plants that did not drop ears under second generation corn borer infestation.
- EGRWTH** = **EARLY GROWTH**.  
This is the visual rating (1 to 9) of the amount of vegetative growth after emergence at the seedling stage (approximately five leaves). A higher score indicates better vigor or early season growth.
- EST CNT** = **EARLY STAND COUNT**.  
This is a measure of the stand establishment in the spring and represents the number of plants that emerge on per plot basis for the inbred or hybrid.
- EYE SPT** = **EYE SPOT** (*Kabatiella zeae* or *Aureobasidium zeae*).  
A 1 to 9 visual rating indicating the resistance to Eye Spot. A higher score indicates a higher resistance.
- FUS ERS** = **FUSARIUM EAR ROT SCORE**. (*Fusarium moniliforme* or *Fusarium subglutinans*).  
A 1 to 9 visual rating indicating the resistance to Fusarium ear rot. A higher score indicates a higher resistance.
- GDU** = **GROWING DEGREE UNITS**.  
Using the Barger Heat Unit Theory, which assumes that maize growth occurs in the temperature range 50°F - 86°F and that temperatures outside this range slow down growth; the maximum daily heat unit accumulation is 36 and the minimum daily heat unit accumulation is 0. The seasonal accumulation of GDU is a major factor in determining maturity zones.
- GDU SHD** = **GDU TO SHED**.  
The number of growing degree units (GDUs) or heat units required for an inbred line or hybrid to have approximately 50 percent of the plants shedding pollen and is measured from the time of planting. Growing degree units are calculated by the Barger Method, where the heat units for a 24-hour period are:  
$$GDU = (Max. Temp. + Min. temp.) - 50/2$$
  
The highest maximum temperature used is 86° F. and the lowest minimum temperature used is 50°F. For each inbred or hybrid it takes a certain number of GDUs to reach various stages of plant development.
- GDU SLK** = **GDU TO SILK**.  
The number of growing degree units required for an inbred line or hybrid to have approximately 50 percent of the plants with silk emergence from time of planting. Growing degree units are calculated by the Barger Method as given in GDU SHD definition.
- GIBERS** = **GIBBERELLA EAR ROT (PINK MOLD)** (*Gibberella zeae*).  
A 1 to 9 visual rating indicating the resistance to Gibberella Ear Rot. A higher score indicates a higher resistance.
- GLF SPT** = **GRAY LEAF SPOT** (*Cercospora zeae-maydis*).  
A 1 to 9 visual rating indicating the resistance to Gray Leaf Spot. A higher score indicates a higher resistance.
- GOS WLT** = **GOSS' WILT** (*Corynebacterium nebraskense*).  
A 1 to 9 visual rating indicating the resistance to Goss' Wilt. A higher score indicates a higher resistance.

- GRN APP = GRAIN APPEARANCE.**  
This is a 1 to 9 rating for the general appearance of the shelled grain as it is harvested based on such factors as the color of harvested grain, any mold on the grain, and any cracked grain. High scores indicate good grain quality.
- HC BLT = HELMINTHOSPORIUM CARBONUM LEAF BLIGHT (*Helminthosporium carbonum*).**  
A 1 to 9 visual rating indicating the resistance to Helminthosporium infection. A higher score indicates a higher resistance.
- HD SMT = HEAD SMUT (*Sphacelotheca reiliana*).**  
This score indicates the percentage of plants not infected.
- KER KG = KERNELS PER KILOGRAM.**  
The number of kernels per 1 kilogram of seed after discard is removed.
- KSZ DCD = KERNEL SIZE DISCARD.**  
The percent of discard seed; calculated as the sum of discarded tip kernels and extra large kernels.
- MDM CPX = MAIZE DWARF MOSAIC COMPLEX (MDMV = Maize Dwarf Mosaic Virus and MCDV = Maize Chlorotic Dwarf Virus).**  
A 1 to 9 visual rating indicating the resistance to Maize Dwarf Mosaic Complex. A higher score indicates a higher resistance.
- MST = HARVEST MOISTURE.**  
The moisture is the actual percentage moisture of the grain at harvest.
- NLF BLT = NORTHERN LEAF BLIGHT (*Helminthosporium turcicum* or *Exserohilum turcicum*).**  
A 1 to 9 visual rating indicating the resistance to Northern Leaf Blight. A higher score indicates a higher resistance.
- PLT HT = PLANT HEIGHT.**  
This is a measure of the height of the plant from the ground to the tip of the tassel in cm.
- POL SC = POLLEN SCORE.**  
A 1 to 9 visual rating indicating the amount of pollen shed. The higher the score the more pollen shed.
- POL WT = POLLEN WEIGHT.**  
This is calculated by dry weight of tassels collected as shedding commences minus dry weight from similar tassels harvested after shedding is complete.
- PRM = PREDICTED RELATIVE MATURITY.**  
This trait, predicted relative maturity, is based on the harvest moisture of the grain. The relative maturity rating is based on a known set of checks and utilizes standard linear regression analyses and is also referred to as the Comparative Relative Maturity Rating System that is similar to the Minnesota Relative Maturity Rating System.
- PRM SHD = PREDICTED RELATIVE MATURITY GDU TO SHED.**  
A relative measure of the growing degree units (GDU) required to reach 50% pollen shed. Relative values are predicted values from the linear regression of observed GDU's on relative maturity of commercial checks.
- RT LDG = ROOT LODGING.**  
Root lodging is the percentage of plants that do not root lodge; plants that lean from the vertical axis at an approximately 30° angle or greater would be counted as root lodged.
- SCT GRN = SCATTER GRAIN.**  
A 1 to 9 visual rating indicating the amount of scatter grain (lack of pollination or kernel abortion) on the ear. The higher the score the less scatter grain.

SEL IND	=	SELECTION INDEX. The selection index gives a single measure of the hybrid's worth based on information for up to five traits. A maize breeder may utilize his or her own set of traits for the selection index. One of the traits that is almost always included is yield. When selection index data is presented, the tables represent the mean value averaged across testing stations.
SLF BLT	=	SOUTHERN LEAF BLIGHT ( <i>Helminthosporium maydis</i> or <i>Bipolaris maydis</i> ). A 1 to 9 visual rating indicating the resistance to Southern Leaf Blight. A higher score indicates a higher resistance.
SOU RST	=	SOUTHERN RUST ( <i>Puccinia polysora</i> ). A 1 to 9 visual rating indicating the resistance to Southern Rust. A higher score indicates a higher resistance.
STAGRN	=	STAYGREEN. Staygreen is the measure of plant health near the time of black layer formation (physiological maturity). A high score indicates better late-season plant health.
STK CNT	=	NUMBER OF PLANTS. This is the final stand or number of plants per plot.
STK LDG.	=	STALK LODGING. This is the percentage of plants that did not stalk lodge (stalk breakage) as measured by either natural lodging or pushing the stalks and determining the percentage of plants that break below the ear.
STW WLT	=	STEWART'S WILT ( <i>Erwinia stewartii</i> ). A 1 to 9 visual rating indicating the resistance to Stewart's Wilt. A higher score indicates a higher resistance.
TASBRN	=	TASSEL BRANCHES. This is the number of primary tassel branches.
TAS SZ	=	TASSEL SIZE. A 1 to 9 visual rating was used to indicate the relative size of the tassel. The higher the rating the larger the tassel.
TAS WT	=	TASSEL WEIGHT. This is the average weight of a tassel (grams) just prior to pollen shed.
TEX EAR	=	EAR TEXTURE. A 1 to 9 visual rating was used to indicate the relative hardness (smoothness of crown) of mature grain. A 1 would be very soft (extreme dent) while a 9 would be very hard (flinty or very smooth crown).
TILLER	=	TILLERS. A count of the number of tillers per plot that could possibly shed pollen was taken. Data are given as a percentage of tillers: number of tillers per plot divided by number of plants per plot.
TST WT	=	TEST WEIGHT (UNADJUSTED). The measure of the weight of the grain in pounds for a given volume (bushel).
YLD SC	=	YIELD SCORE. A 1 to 9 visual rating was used to give a relative rating for yield based on plot ear piles. The higher the rating the greater visual yield appearance.

United States Department of Agriculture, Agricultural Marketing Service  
Science Division, Plant Variety Protection Office  
National Agricultural Library Building, Room 500  
Beltsville, MD 20705

Objective Description of Variety  
Corn (*Zea mays* L.)

Name of Applicant (s) <b>Pioneer Hi-Bred International, Inc.</b>	Variety Seed Source	Variety Name or Temporary Designation PH7JD
Address (Street & No., or RFD No., City, State, Zip Code and Country) <b>7301 NW 62<sup>nd</sup> Avenue, P.O. Box 85, Johnston, Iowa 50131-0085</b>		FOR OFFICIAL USE <b>200200011</b> PVP0 Number
Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by an "*" are considered Necessary for an adequate variety description and must be completed. COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices: describe #25 and #26 in Comments section):		
01=Light Green 02=Medium Green 03=Dark Green 04=Very Dark Green 05=Green-Yellow	06=Pale Yellow 07=Yellow 08=Yellow Orange 09=Salmon 10=Pink-Orange	11=Pink 12=Light Red 13=Cherry Red 14=Red 15=Red & White 16=Pale Purple 17=Purple 18=Colorless 19=White 20=White Capped 21=Buff 22=Tan 23=Brown 24=Bronze 25=Variegated (Describe) 26=Other (Describe)
STANDARD INBRED CHOICES (Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data):		
Yellow Dent Families:		
Family Members	Yellow Dent (Unrelated):	Sweet Corn:
B14 CM105, A632, B64, B68	Co109, ND246,	C13, Iowa5125, P39, 2132
B37 B37, B76, B84	Oh7, T232,	
B73 N192, A679, B73, NC268	W117, W153R,	Popcorn:
C103 Mo17, Va102, Va35, A682	W18BN	SG1533, 4722, HP301, HP7211
Oh43 A619, MS71, H99, Va26	White Dent:	Pipcorn:
WF9 W64A, A554, A654, Pa91	C166, H105, Ky228	Mo15W, Mo16W, Mo24W

Group on Lynn/Oboon/Ground 98-29977

## EXHIBIT C: PH7JD

1. TYPE: (describe intermediate types in Comments section):			Standard Variety Name		
2	1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental		W64A		
2. REGION WHERE DEVELOPED IN THE U.S.A.:			Standard Seed Source		
2	1=Northwest 2=Northcentral 3=Northeast 4=Southeast 5=Southcentral 6=Southwest 7=Other		AMES 19291		
3. MATURITY (In Region of Best Adaptability; show Heat Unit formula in 'Comments' section)			DAYS HEAT UNITS		
DAYS HEAT UNITS					
071	1,324.3	From emergence to 50% of plants in silk	069	1,274.7	
072	1,338.7	From emergence to 50% of plants in pollen	070	1,292.7	
004	0,090.3	From 10% to 90% pollen shed	003	0,078.3	
From 50% silk to optimum edible quality					
From 50% silk to harvest at 25% moisture					
4. PLANT:			Standard Sample		
			Deviation Size		
199.0	cm Plant Height (to tassel tip)	01.00	03	192.9	115.09 03
079.7	cm Ear Height (to base of top ear node)	05.77	03	046.3	49.16 03
015.9	cm Length of Top Ear Internode	01.22	03	012.8	01.45 03
0.0	Average Number of Tillers	00.02	03	0.0	00.01 03
1.0	Average Number of Ears per Stalk	00.06	03	0.9	00.09 03
4	Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=Moderate 4=Dark 5=Very Dark		4		
5. LEAF:			Standard Sample		
			Deviation Size		
09.2	cm Width of Ear Node Leaf	00.20	03	10.1	00.42 03
83.5	cm Length of Ear Node Leaf	02.27	03	87.4	01.78 03
05	Number of leaves above top ear	00.23	03	06	00.42 03
19	Degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	03.08	03	21	03.99 03
03	Leaf Color (Munsell code)	7.5GY34		03	5GY44
1	Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz)			1	
	Marginal Waves (Rate on scale from 1=none to 9=many)				
	Longitudinal Creases (Rate on scale from 1=none to 9=many)				
6. TASSEL:			Standard Sample		
			Deviation Size		
12	Number of Primary Lateral Branches	00.72	03	07	02.80 03
24	Branch Angle from Central Spike	01.45	03	19	06.99 03
52.1	cm Tassel Length (from top leaf collar to tassel tip)	05.33	03	50.5	02.80 03
6	Pollen Shed (rate on scale from 0=male sterile to 9=heavy shed)			8	
17	Anther Color (Munsell code)	7.5RP36		07	10Y8.58
17	Glume Color (Munsell code)	10RP28		01	5GY66
1	Bar Glumes (Glume Bands): 1=Absent 2=Present			1	
Application Variety Data			Standard Variety Data		

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200.7 ± 15.1  
69.7 ± 1.5

14

*SUS 8/35/03*

Application Variety Data	PH7JD	Page 2	Standard Variety Data	
7a. EAR (Unhusked Data):			<i>01</i> <del>01</del> 2.5GY96 01 5GY78 21 2.5YR54 3 5 2	
11 Silk Color (3 days after emergence) (Munsell code)	7.5R58			
01 Fresh Husk Color (25 days after 50% silking) (Munsell code)	5GY68			
21 Dry Husk Color (65 days after 50% silking) (Munsell code)	10YR92			
2 Position of Ear at Dry Husk Stage: 1= Upright 2= Horizontal 3= Pendant				
2 Husk Tightness (Rate of Scale from 1=very loose to 9=very tight)				
2 Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm)				
3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)				
7b. EAR (Husked Ear Data):	Standard Deviation	Sample Size	Standard Deviation	Sample Size
14.0 cm Ear Length	01.00	03	11.7	00.58 03
42.7 mm Ear Diameter at mid-point	01.15	03	41.0	01.00 03
112.3 gm Ear Weight	12.10	03	56.3	02.31 03
16 Number of Kernel Rows	00.58	03	16.3	00.58 03
2 Kernel Rows: 1=Indistinct 2=Distinct			2	
2 Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral			1	
08.3 cm Shank Length	02.08	03	08.0	01.00 03
2 Ear Taper: 1=Slight 2= Average 3=Extreme			2	
8. KERNEL (Dried)	Standard Deviation	Sample Size	Standard Deviation	Sample Size
10.7 mm Kernel Length	00.58	03	09.0	00.00 03
07.7 mm Kernel Width	00.58	03	07.0	00.00 03
05.0 mm Kernel Thickness	00.00	03	04.7	00.58 03
51.7 % Round Kernels (Shape Grade)	12.50	03	68.7	09.29 03
1 Aleurone Color Pattern: 1-Homozygous 2=Segregating			1	
07 Aleurone Color (Munsell code)	10YR710		07	2.5Y812
07 Hard Endosperm Color (Munsell code)	10YR612		07	10YR614
03 Endosperm Type:			3	
1=Sweet (Su1) 2=Extra Sweet (sh2) 3=Normal Starch				
4=High Amylose Starch 5=Waxy Starch 6=High Protein				
7=High Lysine 8=Super Sweet (se) 9=High Oil				
10=Other_____				
25.7 gm Weight per 100 Kernels (unsized sample)	03.06	03	12.67	00.58 03
9. COB:	Standard Deviation	Sample Size	Standard Deviation	Sample Size
25.0 mm Cob Diameter at mid-point	02.00	03	27.7	00.58 03
14 Cob Color (Munsell code)	5R46		14	2.5YR56

10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant);  
leave blank if not tested; leave Race or Strain Options blank if polygenic):

A. Leaf Blights, Wilts, and Local Infection Diseases

	Anthraxnose Leaf Blight ( <i>Colletotrichum graminicola</i> )	
7	Common Rust ( <i>Puccinia sorghi</i> )	5
	Common Smut ( <i>Ustilago maydis</i> )	
5	Eyespot ( <i>Kabatella zeae</i> )	2
5	Goss's Wilt ( <i>Clavibacter michiganense</i> spp. <i>nebraskense</i> )	5
5	Gray Leaf Spot ( <i>Cercospora zeae-maydis</i> )	2
	Helminthosporium Leaf Spot ( <i>Bipolaris zeicola</i> ) Race _____	
5	Northern Leaf Blight ( <i>Exserohilum turcicum</i> ) Race _____	5
	Southern Leaf Blight ( <i>Bipolaris maydis</i> ) Race _____	
	Southern Rust ( <i>Puccinia polysora</i> )	
7	Stewart's Wilt ( <i>Erwinia stewartii</i> )	7
	Other (Specify) _____	

B. Systemic Diseases

	Corn Lethal Necrosis (MCMV and MDMV)	
5	Head Smut ( <i>Sphacelotheca reiliana</i> )	9
	Maize Chlorotic Dwarf Virus (MDV)	
	Maize Chlorotic Mottle Virus (MCMV)	
	Maize Dwarf Mosaic Virus (MDMV)	
	Sorghum Downy Mildew of Corn ( <i>Peronosclerospora sorghi</i> )	
	Other (Specify) _____	

C. Stalk Rots

5	Anthraxnose Stalk Rot ( <i>Colletotrichum graminicola</i> )	3
	Diplodia Stalk Rot ( <i>Stenocarpella maydis</i> )	
	Fusarium Stalk Rot ( <i>Fusarium moniliforme</i> )	
	Gibberella Stalk Rot ( <i>Gibberella zeae</i> )	
	Other (Specify) _____	

D. Ear and Kernel Rots

	Aspergillus Ear and Kernel Rot ( <i>Aspergillus flavus</i> )	
	Diplodia Ear Rot ( <i>Stenocarpella maydis</i> )	
	Fusarium Ear and Kernel Rot ( <i>Fusarium moniliforme</i> )	
5	Gibberella Ear Rot ( <i>Gibberella zeae</i> )	5
	Other (Specify) _____	

PH7JD

Application Variety Data

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Standard Variety Data

## 11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); (leave blank if not tested) :

	Banks grass Mite ( <i>Oligonychus pratensis</i> )	
	Corn Worm ( <i>Helioverpa zea</i> )	
	Leaf Feeding	
	Silk Feeding	
	mg larval wt.	
	Ear Damage	
	Corn Leaf Aphid ( <i>Rhopalosiphum maidis</i> )	
	Corn Sap Beetle ( <i>Carpophilus dimidiatus</i> )	
	European Corn Borer ( <i>Ostrinia nubilalis</i> )	
2	1st Generation (Typically Whorl Leaf Feeding)	4
3	2nd Generation (Typically Leaf Sheath-Collar Feeding)	3
	Stalk Tunneling	
	cm tunneled/plant	
	Fall Armyworm ( <i>Spodoptera frugiperda</i> )	
	Leaf Feeding	
	Silk Feeding	
	mg larval wt.	
	Maize Weevil ( <i>Sitophilus zeamais</i> )	
	Northern Rootworm ( <i>Diabrotica barberi</i> )	
	Southern Rootworm ( <i>Diabrotica undecimpunctata</i> )	
	Southwestern Corn Borer ( <i>Diatraea grandiosella</i> )	
	Leaf Feeding	
	Stalk Tunneling	
	cm tunneled/plant	
	Two-spotted Spider Mite ( <i>Tetranychus urticae</i> )	
	Western Rootworm ( <i>Diabrotica virgifera virgifera</i> )	
	Other (Specify) _____	
12. AGRONOMIC TRAITS:		
8	Staygreen (at 65 days after anthesis) (Rate on a scale from 1=worst to excellent)	3
0.0	% Dropped Ears (at 65 days after anthesis)	0.0
	% Pre-anthesis Brittle Snapping	
	% Pre-anthesis Root Lodging	
8.5	Post-anthesis Root Lodging (at 65 days after anthesis)	7.1
6,278.3	Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)	3,759.0

## 13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied):

1 Isozymes

0 RFLP's

0 RAPD's

COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):

Application Variety Data

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Standard Variety Data

## CLARIFICATION OF DATA IN EXHIBITS B AND C

Please note the data presented in Exhibit C, "Objective Description of Variety," are collected primarily at Johnston and Ankeny, Iowa. The data in Exhibit B are from comparisons of inbreds grown in the same tests in the adapted growing area of PH7JD and in Johnston and Ankeny, IA. The data in Tables 1A and 1B are from paired comparison t-tests collected in Johnston and Ankeny, IA. These traits collectively show distinct differences between the two varieties.

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The data collected in exhibit C was collected in 2000 for page 1 and 2. There were 3 different planting dates planted for these trials. There are environmental factors that differ from planting date to planting date. Environmental temperature and precipitation differences during the vegetative and grain fill periods can impact plant and grain traits, and are a source of variability. The environmental conditions described above could result in larger standard deviations. The variation associated with environment to environment is normally higher than the variation associated within locations. I have enclosed a table that shows some of the temperature and precipitation in 2000. Please enclose this table as part of Exhibit D.

## Exhibit D. Temperature and Precipitation differences from Ankeny, IA

## TEMPERATURE

YEAR	MAY	JUN	JULY	AUG	AVERAGE
1994	59.8	70.7	71.9	69.0	67.9
1995	56.2	69.4	74.3	76.9	69.2
1996	56.2	69.3	71.3	70.5	66.8
1997	53.5	70.6	74.1	69.6	67.0
1998	64.7	66.6	74.8	73.5	69.9
1999	60.7	69.7	78.7	70.5	69.9
2000	63.5	68.9	73.2	74.2	70.0

## RAINFALL

YEAR	MAY	JUN	JULY	AUG	Total
1994	3.67	5.75	1.71	4.18	15.31
1995	5.04	4.19	2.94	2.87	15.04
1996	8.47	4.35	2.51	2.14	17.47
1997	4.32	3.27	4.10	1.36	13.05
1998	6.46	11.07	5.70	4.96	28.19
1999	6.46	4.54	4.45	6.55	21.85
2000	5.40	5.80	3.16	1.78	16.14

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  <b>PIONEER HI-BRED INTERNATIONAL, INC.</b>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  <b>PH7JD</b>
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  <b>7301 NW 62<sup>nd</sup> AVENUE P.O. BOX 85 JOHNSTON, IA 50131-0085</b>	5. TELEPHONE (include area code)  <b>515-270-4051</b>	6. FAX (include area code)  <b>515-253-2125</b>
7. PVPO NUMBER		<b>200200011</b>
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

9. Is the applicant (individual or company) a U.S. national or U.S. based company? ☒ YES ☐ NO

If no, give name of country

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by Individual(s), Is(are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), Is(are) the original owner(s) a U.S. based company?

☒ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use reverse for extra space):

PH7JD is owned by Pioneer Hi-Bred International, Inc.

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint, write Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.